



Miniature circuit breaker 400 V 10kA, 2-pole, D, 1.6A, D=70 mm

| Model   |                                 |
|---|---------------------------------|
| product brand name  | SENTRON                         |
| product designation   | Miniature circuit breaker       |
| General technical data  |                                 |
| number of poles   | 2                               |
| design of pole  | 2P                              |
| tripping characteristic class   | D                               |
| mechanical service life (switching cycles) typical                                  | 10 000                          |
| overvoltage category  | III                             |
| degree of pollution   | 3                               |
| Voltage   |                                 |
| type of voltage of the operating voltage  | AC                              |
| insulation voltage (U <sub>i</sub> )  |                                 |
| • with single-phase operation at AC rated value                                     | 440 V                           |
| • with multi-phase operation at AC rated value                                      | 440 V                           |
| supply voltage with single-phase operation at AC rated value                        | 230 V                           |
| Supply voltage  |                                 |
| supply voltage  |                                 |
| • at AC rated value   | 400 V                           |
| value range of the supply voltage frequency   | 50/60 Hz                        |
| operating voltage at DC rated value maximum   | 72 V                            |
| Protection class  |                                 |
| protection class IP   | IP20, with connected conductors |
| Switching capacity  |                                 |
| switching capacity current  |                                 |
| • at DC according to IEC 60947-2 rated value  | 15 kA                           |
| • according to EN 60898 rated value   | 10 kA                           |
| • according to IEC 60947-2 rated value  | 35 kA                           |
| Dissipation   |                                 |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1 W                             |
| Current   |                                 |
| operational current   |                                 |
| • at 35 °C rated value  | 1.6 A                           |
| • at 40 °C rated value  | 1.52 A                          |
| • at 45 °C rated value  | 1.48 A                          |
| • at 50 °C rated value  | 1.44 A                          |
| • at 55 °C rated value  | 1.4 A                           |
| • at 60 °C rated value  | 1.36 A                          |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>● at AC rated value</li> </ul>  | 1.6 A   |
| suitability for operation  | Mechanical engineering / industry   |
| <b>Product details</b>   |   |
| product component  |   |
| <ul style="list-style-type: none"> <li>● combined terminal top</li> <li>● combined terminal bottom</li> <li>● neutral conductor switching</li> </ul>                               | Yes<br>Yes<br>No  |
| product feature  |   |
| <ul style="list-style-type: none"> <li>● properties for main switches in accordance with EN 60204-1</li> <li>● halogen-free</li> <li>● sealable</li> <li>● silicon-free</li> </ul> | Yes<br>Yes<br>Yes<br>Yes  |
| product extension installable supplementary devices  | Yes   |
| <b>Short circuit</b>   |   |
| breaking capacity short-circuit current (I <sub>cn</sub> )   |   |
| <ul style="list-style-type: none"> <li>● at AC according to UL 1077 and CSA C22.2 No.235</li> </ul>  | 5 kA  |
| <b>Connections</b>   |   |
| connectable conductor cross-section solid  |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup>  |
| connectable conductor cross-section stranded   |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>35 mm <sup>2</sup>  |
| connectable conductor cross-section finely stranded with core end processing   |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 0.75 mm <sup>2</sup><br>25 mm <sup>2</sup>  |
| AWG number as coded connectable conductor cross section  |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 18<br>4   |
| tightening torque [lbf-in] with screw-type terminals   |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 22 lbf-in<br>31 lbf-in  |
| tightening torque with screw-type terminals  |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | 2.5 N-m<br>3.5 N-m  |
| position of power supply cord  | Any   |
| <b>Mechanical Design</b>   |   |
| height   | 90 mm   |
| width  | 36 mm   |
| depth  | 76 mm   |
| installation depth   | 70 mm   |
| number of modular width units  | 2   |
| fastening method   | Quick assembly system   |
| mounting position  | any   |
| net weight   | 321 g   |
| <b>Environmental conditions</b>  |   |
| influence of the surrounding temperature standard  | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C<br>IEC / EN 60898-1, IEC / EN 60947-2 / UL1077 |
| vibration resistance according to IEC 60068-2-6  | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz  |
| ambient temperature during operation   |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | -40 °C<br>70 °C   |
| ambient temperature during storage   |   |
| <ul style="list-style-type: none"> <li>● minimum</li> <li>● maximum</li> </ul>   | -40 °C<br>75 °C   |
| number of test cycles for environmental testing according to IEC 60068-2-30  | 6   |
| <b>Certificates</b>  |   |
| reference code   |   |
| <ul style="list-style-type: none"> <li>● according to EN 61346-2</li> </ul>  | F   |

**General Product Approval**

[Confirmation](#)



[Miscellaneous](#)

**General Product Approval**

**EMC**

**Declaration of Conformity**

**Test Certificates**



[Miscellaneous](#)



EG-Konf.



[Miscellaneous](#)

**Test Certificates**

**Marine / Shipping**

[Special Test Certificate](#)



LRS



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**Railway**

[Environmental Confirmations](#)

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[Vibration and Shock](#)

**Further information**

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY4215-8>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/5SY4215-8>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

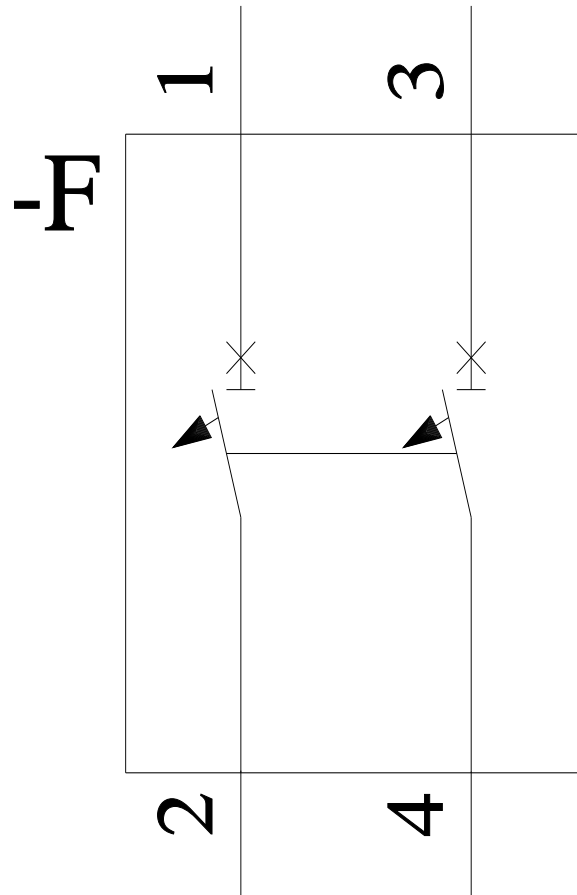
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4215-8](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4215-8)

**CAx-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://www.siemens.com/specifications>



# CB



